Ninghui Li

Department of Computer Science
Stanford University
Gates 4B
Stanford, CA 94305-9045

Phone: (650)723-3705
Fax: (650)725-4671
Email: ninghui.li@cs.stanford.edu
Home page: http://crypto.stanford.edu/∼ninghui

Research Interests

Computer security and applied cryptography, e.g., security and privacy in distributed systems, networks, databases, and electronic commerce.

Education

New York University — New York, NY
Ph.D. student, Department of Computer Science — September 1995 — August 2000

- Ph.D. in Computer Science — September 2000
  Dissertation: *Delegation Logic: A Logic-based Approach to Distributed Authorization*
  Advisor: Joan Feigenbaum
- M.S. in Computer Science — January 1998

The Graduate School of Chinese Academy of Sciences — Beijing, China
Graduate student — September 1993 — June 1995

University of Science and Technology of China — Hefei, Anhui, China
Undergraduate student, Special Class for Gifted Young — September 1988 — July 1993

- B.S. in Computer Science — July 1993
  Dissertation: *An Object Oriented Knowledge-Base System*
  Advisor: Zhongzhi Shi

Employment History

Stanford University — Stanford, CA
Research associate, Department of Computer Science — September 2000 — present
Supervisor: John C. Mitchell

New York University — New York, NY
Teaching assistant — January 1999 — May 2000
Research assistant — September 1998 — December 1998
Ph.D. student supported by Henry M. MacCracken Fellowship — September 1995 — June 1998

IBM T. J. Watson Research Center — Hawthorne, NY
Research intern — May 1999 to Aug 1999

AT&T Labs – Research — Florham Park, NJ
Research intern — May 1998 — July 1998

Cheyenne Software, Inc. — Lake Success, NY
Engineering intern — June 1996 — Aug 1996

Institute of Software, Chinese Academy of Sciences — Beijing, China
Research assistant — September 1994 — April 1995

Institute of Computing Technology, Chinese Academy of Sciences — Beijing, China
Research assistant — March 1992 — June 1993

Teaching Experience

New York University New York, NY

Teaching assistant, Department of Computer Science

- Fundamental Algorithms (graduate) Spring 1999
- Programming for the WWW (graduate) Fall 1999
- User Interfaces (graduate) Spring 2000

Program Committee Memberships

IEEE Computer Security Foundations Workshop 2002

International Conference on Trust Management 2003

Publications

Journal Articles

- Ninghui Li, William H. Winsborough, and John C. Mitchell. Distributed credential chain discovery in trust management. *Journal of Computer Security.* 11(1):35–86, February 2003.

- Ninghui Li, Benjamin N. Grosof, and Joan Feigenbaum. Delegation Logic: a logic-based approach to distributed authorization. *ACM Transactions on Information and System Security (TISSEC).* 6(1):128–171, February 2003.

Refereed Conference and Workshop Papers

- Ninghui Li, Wenliang Du, and Dan Boneh. Oblivious signature-based envelope. To appear in *ACM Symposium on Principles of Distributed Computing (PODC 2003)*, Boston, Massachusetts, July 2003.

- Ninghui Li and John C. Mitchell. Understanding SPKI/SDSI using first-order logic. To appear in *Proceedings of IEEE Computer Security Foundations Workshop*, Pacific Grove, California, June 2003.

- Ninghui Li, William H. Winsborough, and John C. Mitchell. Beyond proof-of-compliance: safety and availability analysis in trust management. To appear in *Proceedings of IEEE Symposium on Security and Privacy*, Berkeley, California, May 2003.

- Ninghui Li and John C. Mitchell. *RT*: a role-based trust-management framework. To appear in *The Third DARPA Information Survivability Conference and Exposition (DISCEX III)*, Washington, D.C., April 2003.

- Ninghui Li and John C. Mitchell. Datalog with constraints: a foundation for trust-management languages. In *Proceedings of the Fifth International Symposium on Practical Aspects of Declarative Languages (PADL 2003)*, New Orleans, Louisiana, January 2003. LNCS 2562, Springer, Berlin, pp. 58–73.

- William H. Winsborough and Ninghui Li. Protecting sensitive attributes in automated trust negotiation. To appear in *Proceedings of ACM Workshop on Privacy in the Electronic Society*, Washington, DC, November 2002. Proceedings to be published by ACM Press.

- William H. Winsborough and Ninghui Li. Towards practical automated trust negotiation. In *Proceedings of the Third International Workshop on Policies for Distributed Systems and Networks (POLICY 2002)*, Monterey, California, June 2002. IEEE Computer Society Press, Los Alamitos, California, pp. 92–103

- Ninghui Li, John C. Mitchell, and William H. Winsborough. Design of a role-based trust-management framework. In *Proceedings of 2002 IEEE Symposium on Security and Privacy*, Berkeley, California, May 2002. IEEE Computer Society Press, Los Alamitos, California, pp. 114–130.
- Ninghui Li, William H. Winsborough, and John C. Mitchell. Distributed credential chain discovery in trust management (extended abstract). In *Proceedings of the 8th ACM Conference on Computer and Communications Security (CCS-8)*, Philadelphia, Pennsylvania, November 2001. ACM Press, New York, New York, pp. 156–165.
- Ninghui Li and Joan Feigenbaum. Nonmonotonicity, user interfaces, and risk assessment in certificate Revocation (position paper). In *Proceedings of the Fifth International Conference on Financial Cryptography (FC'01)*, Grand Cayman, BWI, February 2001. LNCS 2339, Springer, Berlin, 2002, pp. 166–177.
- Ninghui Li. Local names in SPKI/SDSI 2.0. In *Proceedings of the 13th IEEE Computer Security Foundations Workshop (CSFW-13)*, Cambridge, UK, July 2000. IEEE Computer Society Press, Los Alamitos, California, pp. 2–15.
- Ninghui Li, Benjamin N. Grosof, and Joan Feigenbaum. A practically implementable and tractable Delegation Logic. In Proceedings of the 21st IEEE Symposium on Security and Privacy, Berkeley, California, May 2000. IEEE Computer Society Press, Los Alamitos, California, pp. 27–42.
- Ninghui Li, Joan Feigenbaum, and Benjamin N. Grosof. A logic-based knowledge representation for authorization with delegation (extended abstract). In *Proceedings of the 12th IEEE Computer Security Foundations Workshop (CSFW-12)*, Mordano, Italy, June 1999. IEEE Computer Society Press, Los Alamitos, pp. 162–174. Full paper available as IBM Research Report RC21492.

Awards

Henry M. MacCracken Fellowship from New York University. 1995 – 1998

References

Available upon request.